

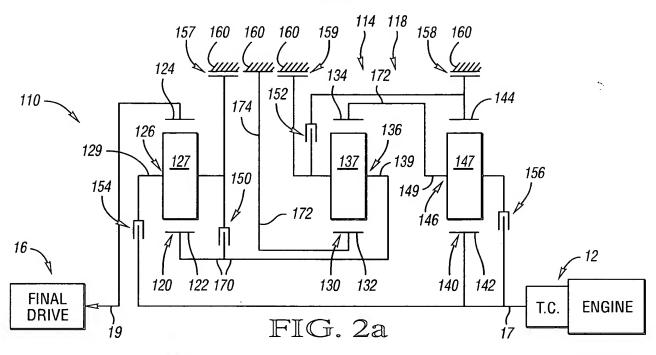
	RATIOS	50	52	54	56	57	58	59
REVERSE 2	-4.09	Χ					Χ	
REVERSE 1	2.10				Χ			Χ
NEUTRAL	0.00		Χ					
1	4.72		Χ				Χ	
2	2.71		Χ			Χ		
3	1.82	X	Χ					
4	1.21		Χ	Χ				
5	1.00			Χ	Χ			
6	0.84	Χ		χ				
7	0.69			Χ		Χ		
8	0.60			χ				Χ

FIG. 1b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 2.25$ ,  $\frac{N_{R_2}}{N_{S_2}} = 2.57$ ,  $\frac{N_{R_3}}{N_{S_3}} = 2.91$ 

RATIO SPREAD	7.82
RATIO STEPS	
REV2/1	-0.87
1/2	1.74
2/3	1.49
3/4	1.50
4/5	1.21
5/6	1.20
6/7	1.20
7/8	1.15



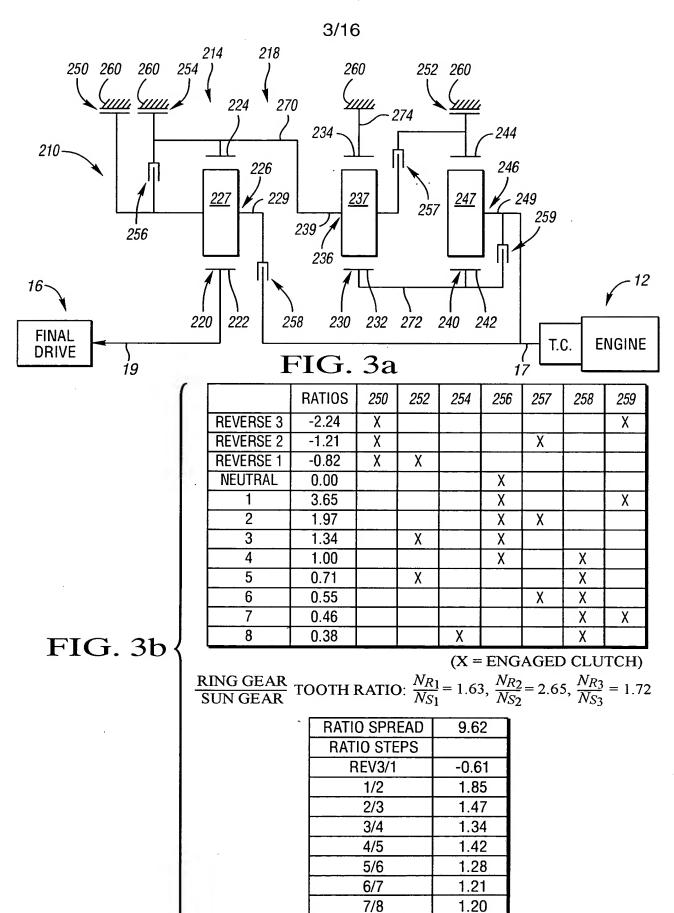
	RATIOS	150	152	154	156	157	158	159
REVERSE 3	-8.79					Χ	X	
REVERSE 2	-4.85		Χ			Χ		
REVERSE 1	-2.70				Χ	Χ		
NEUTRAL	0.00	Χ						
1	5.02	Χ					Χ	
2	2.77	Χ	Χ					
3	1.54	Χ			Χ			
4	1.00	Χ		X				
5	0.83			Χ	Χ			
6	0.73		Χ	Χ				
7	0.69			Χ			Χ	
8	0.64			Χ				Χ

FIG. 2b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 1.75$ ,  $\frac{N_{R_2}}{N_{S_2}} = 1.84$ ,  $\frac{N_{R_3}}{N_{S_3}} = 2.25$ 

RATIO SPREAD	7.88
RATIO STEPS	
REV2/1	-0.97
1/2	1.81
2/3	1.79
3/4	1.54
4/5	1.20
5/6	1.14
6/7	1.07
7/8	1.08



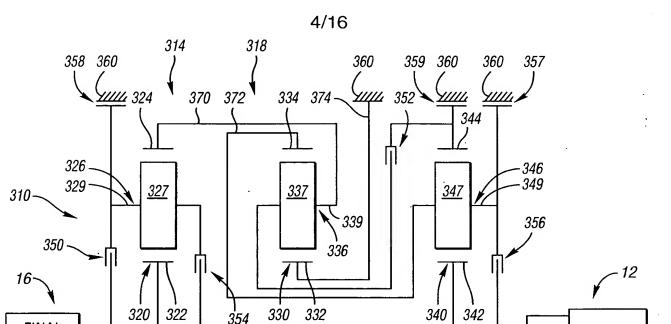


FIG. 4a

	RATIOS	350	352	354	356	357	358	359
REVERSE 3	-3.58						Χ	Χ
REVERSE 2	-1.57		Χ				Χ	
REVERSE 1	-0.89				Χ		Х	
NEUTRAL	0.00							Χ
1	5.35	Χ						Χ
2	2.35	Χ	Χ					
3	1.34	Χ			Χ			
4	1.00	Χ		Χ				
5	0.73			Χ	Χ			
6	0.54		Χ	Χ				
7	0.45			Χ				Χ
8	0.40			Χ		Χ		

FIG. 4b

**FINAL** 

**DRIVE** 

(X = ENGAGED CLUTCH)

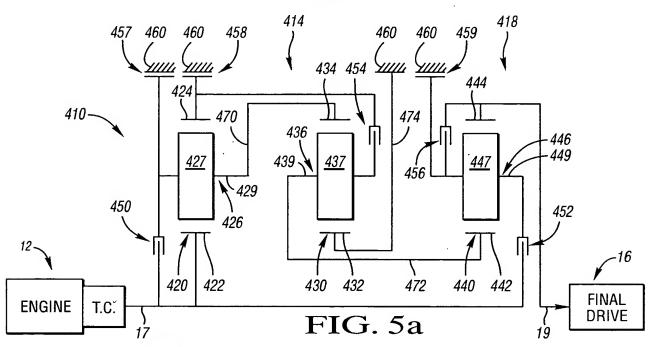
**ENGINE** 

T.C.

 $\frac{\text{RING GEAR}}{\text{SUN GEAR}} \text{ TOOTH RATIO: } \frac{N_{R1}}{N_{S1}} = 1.50, \frac{N_{R2}}{N_{S2}} = 2.97, \frac{N_{R3}}{N_{S3}} = 3.00$ 

RATIO SPREAD	13.36
RATIO STEPS	
REV3/1	-0.67
1/2	2.28
2/3	1.76
3/4	1.34
4/5	1.38
5/6	1.35
6/7	1.19
7/8	1.13





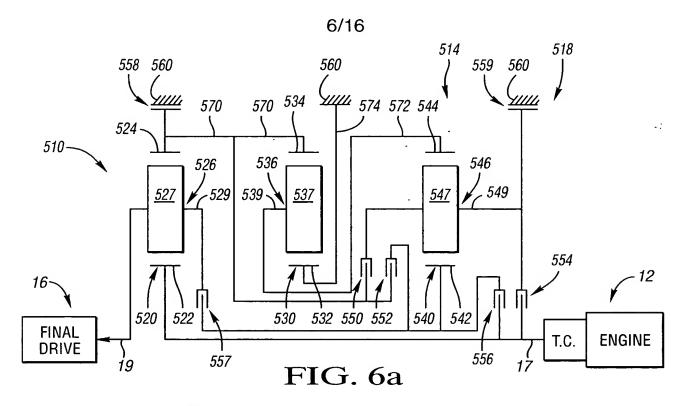
	RATIOS	450	452	454	456	457	458	459
REVERSE 3	-10.16						X	Χ
REVERSE 2	-5.62			Х				Χ
REVERSE 1	-2.59	Χ						Χ
NEUTRAL	0.00						X	
1	6.56				Χ		X	
2	3.63			Χ	Χ			
3	1.67	X			Χ			
4	1.00		Χ		Χ	_		
5	0.79	X	Χ					
6	0.68		Χ	Χ				
7	0.65		Χ				Χ	
8	0.61		Χ			χ		

FIG. 5b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R1}}{N_{S1}} = 2.92$ ,  $\frac{N_{R2}}{N_{S2}} = 1.49$ ,  $\frac{N_{R3}}{N_{S3}} = 1.55$ 

RATIO SPREAD	10.78
RATIO STEPS	
REV2/1	-0.86
1/2	1.81
2/3	2.17
3/4	1.67
4/5	1.26
5/6	1.17
6/7	1.05
7/8	1.06



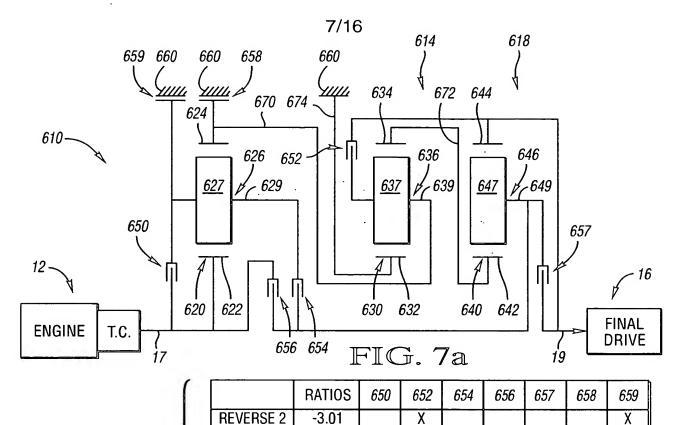
	RATIOS	550	552	554	556	557	558	559
 REVERSE	-7.57				Χ			Χ
NEUTRAL								Χ
1	4.42					Χ		Χ
2	3.02					Χ	X	
3	1.99	Χ				Χ		
4	1.49	Χ			Χ			
5	1.00	Χ		Χ				
6	0.79		Χ	Χ				
7	0.76			Х		Χ		
8	0.69			Х	Χ			

FIG. 6b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 2.02$ ,  $\frac{N_{R_2}}{N_{S_2}} = 1.50$ ,  $\frac{N_{R_3}}{N_{S_3}} = 2.41$ 

RATIO SPREAD	6.40
RATIO STEPS	
REV/1	-1.71
1/2	1.46
2/3	1.52
3/4	1.34
4/5	1.49
5/6	1.26
6/7	1.03
7/8	1.10



**REVERSE 1** -2.14 Χ χ NEUTRAL 0.00 χ 6.44 X χ 2 3.01 X Χ 3 1.87 X χ 4 1.41 X χ 5 Χ 1.16 χ 5 1.10 Χ Χ 6 1.00 7 0.75 χ 7' 0.71

FIG. 7b

(X = ENGAGED CLUTCH)

Χ

χ

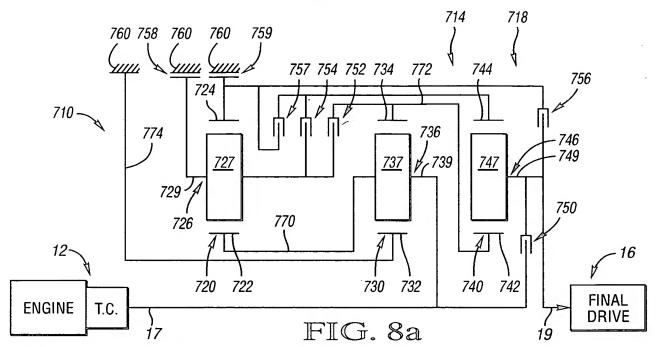
RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 3.01$ ,  $\frac{N_{R_2}}{N_{S_2}} = 2.45$ ,  $\frac{N_{R_3}}{N_{S_3}} = 3.02$ 

χ

0.67

8

RATIO SPREAD	9.58
RATIO STEPS	
REV2/1	-0.47
1/2	2.14
2/3	1.61
3/4	1.33
4/5	1.22
5/6	1.16
6/7	1.33
7/8	1.12



	RATIOS	750	752	754	756	757	758	759
REVERSE	-2.63				Χ		Χ	
NEUTRAL	0.00						Χ	
1	5.36					Χ	Χ	
2	2.24			χ			Χ	
3	1.57			Χ				Χ
4	1.00	Χ		Χ				
5	0.88	_		Χ		Χ		
6	0.80			Χ	Χ			
7	0.71		χ	Χ				
8	0.66		χ			Χ		
9	0.64		Χ		Χ			

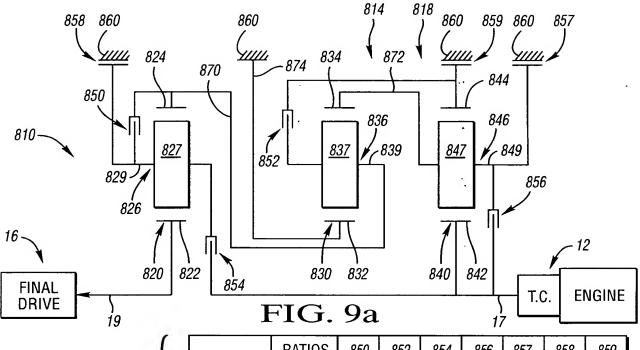
FIG. 8b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 2.63$ ,  $\frac{N_{R_2}}{N_{S_2}} = 2.45$ ,  $\frac{N_{R_3}}{N_{S_3}} = 2.15$ 

RATIO SPREAD	8.38
RATIO STEPS	
REV/1	-0.49
1/2	2.39
2/3	1.43
3/4	1.57
4/5	1.14
5/6	1.10
6/7	1.13
7/8	1.08
8/9	1.03

9/16



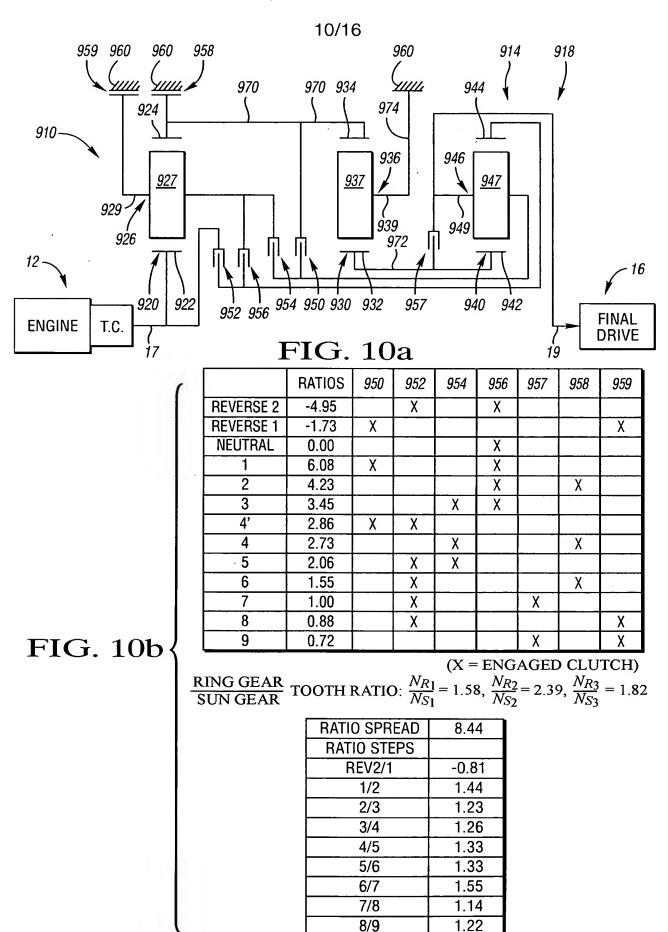
	RATIOS	850	852	854	856	857	858	859
REVERSE 3	-1.84						Χ	Χ
REVERSE 2	-0.96		Χ				Χ	
REVERSE 1	-0.67				Χ		Χ	
NEUTRAL	0.00		_					Χ
1	3.68	Χ						Χ
2	1.93	Χ	Χ					
3	1.34	Χ			Χ			
4	1.00	Χ		Χ				
5	0.66			Χ	Χ			
6	0.51		Χ	Χ				
7	0.41			Χ				Χ
8	0.33			Χ		Χ		

FIG. 9b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R1}}{N_{S1}} = 2.00$ ,  $\frac{N_{R2}}{N_{S2}} = 2.97$ ,  $\frac{N_{R3}}{N_{S3}} = 1.75$ 

RATIO SPREAD	11.03
RATIO STEPS	
REV3/1	-0.50
1/2	1.91
2/3	1.44
3/4	1.34
4/5	1.50
5/6	1.30
6/7	1.25
7/8	1.22



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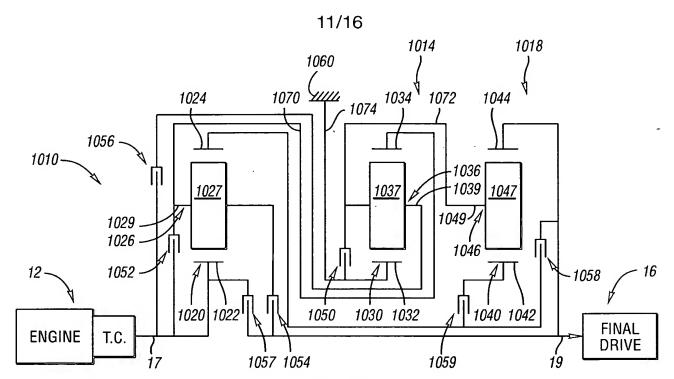


FIG. 11a

	RATIOS	1050	1052	1054	1056	1057	1058	1059
REVERSE	-2.93	. Х					Χ	
NEUTRAL	0.00	Χ						
1	7.03	Χ						Χ
2	4.67			Χ				Χ
3	3.30						Χ	Χ
4	2.10		χ					Χ
5	1.49				χ			Χ
6	1.00				Χ	Χ		
7	0.63			Χ	Χ			
8	0.56				Χ		Χ	

FIG. 11b

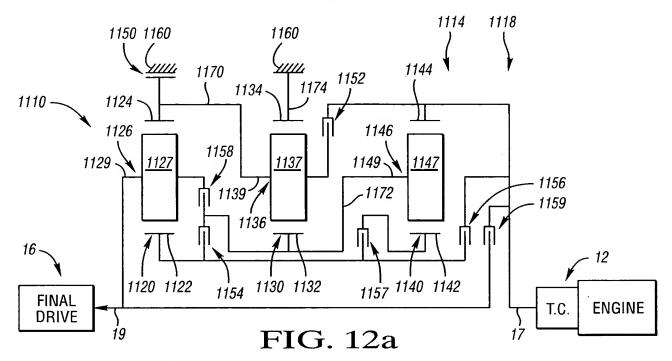
(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 2.92$ ,  $\frac{N_{R_2}}{N_{S_2}} = 1.71$ ,  $\frac{N_{R_3}}{N_{S_3}} = 2.40$ 

RATIO SPREAD	12.53
RATIO STEPS	
REV/1	-0.42
1/2	1.50
2/3	1.42
3/4	1.57
4/5	1.41
5/6	1.48
6/7	1.58
7/8	1.13

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	RATIOS	1150	1152	1154	1156	1157	1158	1159
REVERSE	-1.61	Χ				Χ		
NEUTRAL	0.00	Χ						
1	3.62	Χ			Χ			
2	2.57				Χ		Χ	
3	1.77			Χ	Χ			
4	1.00		Χ					X
5	0.71		Χ	Χ				
6	0.42		Χ			Χ		
7	0.40		X	Ī			Χ	
8	0.30					Χ	Χ	

FIG. 12b

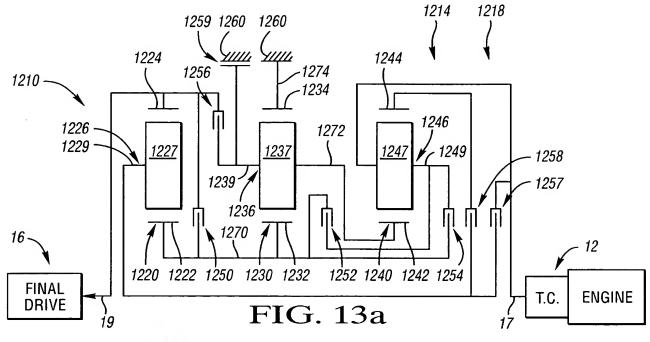
(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 2.62$ ,  $\frac{N_{R_2}}{N_{S_2}} = 1.66$ ,  $\frac{N_{R_3}}{N_{S_3}} = 2.25$ 

RATIO SPREAD	12.05
RATIO STEPS	
REV/1	-0.44
1/2	1.40
2/3	1.45
3/4	1.77
4/5	1.42
5/6	1.66
6/7	1.06
7/8	1.33

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	RATIOS	1250	1252	1254	1256	1257	1258	1259
REVERSE	-3.01					Χ	Χ	
NEUTRAL	0.00				Χ			
1	4.00		Χ		Χ			
2	2.82			Χ	Χ			
3	1.92				Χ	Χ		
3'	1.56				Χ		χ	
4	1.23			X		X		
5	1.00	X				X		
6	0.71	Χ					χ	
6'	0.69		,			Χ		Χ
7	0.59		X				χ	
8	0.42						χ	Χ

FIG. 13b

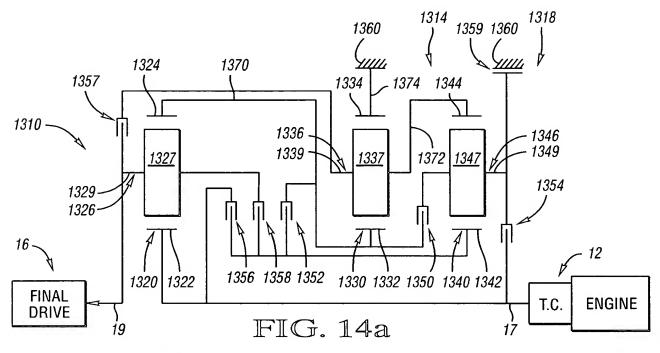
(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 2.25$ ,  $\frac{N_{R_2}}{N_{S_2}} = 3.00$ ,  $\frac{N_{R_3}}{N_{S_3}} = 1.55$ 

9.50
-0.75
1.42
1.48
1.57
1.23
1.42
1.20
1.40

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	RATIOS	1350	1352	1354	1356	1357	1358	1359
REVERSE 2	-2.79					Χ		Χ
REVERSE 1	-1.62				Χ			Χ
NEUTRAL	0.00							Χ
1	5.89						χ	Χ
2	3.02	Χ						Χ
3	2.15	Χ					χ	
4	1.62	Χ			Χ			
5	1.00	Χ		Χ				
6	0.66		Χ	Χ				
7	0.61			Χ			Χ	
8	0.44			Χ	Χ			

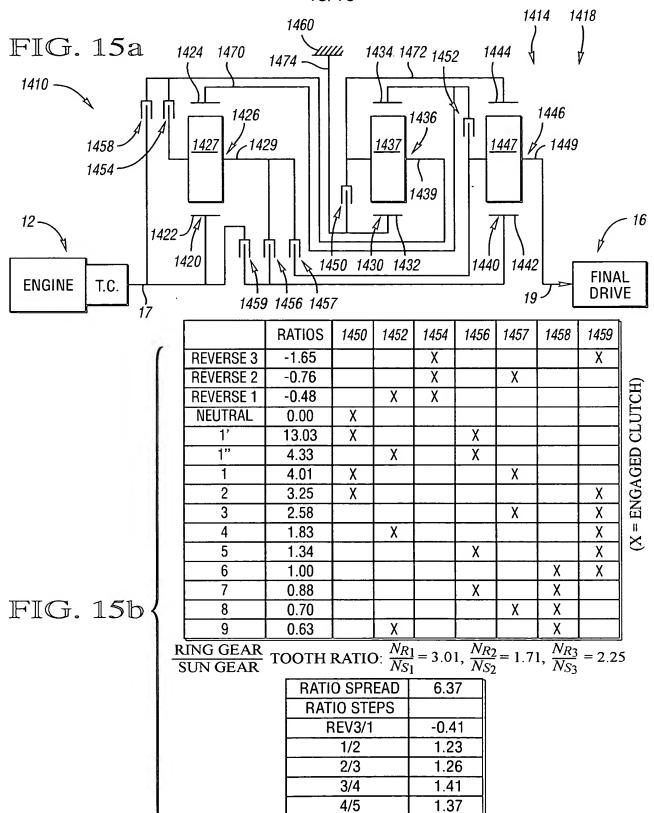
FIG. 14b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R1}}{N_{S1}} = 2.02$ ,  $\frac{N_{R2}}{N_{S2}} = 1.87$ ,  $\frac{N_{R3}}{N_{S3}} = 2.03$ 

RATIO SPREAD	13.28
RATIO STEPS	
REV2/1	-0.47
1/2	1.95
2/3	1.40
3/4	1.33
4/5	1.62
5/6	1.52
6/7	1.08
7/8	1.37





6/7

7/8

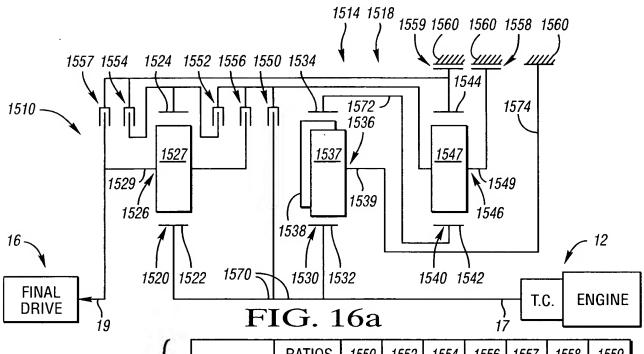
8/9

1.34

1.14

1.26

1.11



					17			
	RATIOS	1550	1552	1554	1556	1557	1558	1559
REVERSE 2	-4.45					Χ	Χ	
REVERSE 1	-2.86			Χ	Χ			
NEUTRAL	0.00							Χ
1'	12.25			Χ			Χ	
1	7.32				Χ			Х
2	4.00			Χ				Х
3'	2.87				Χ	Χ		
3	2.84		Χ				0	Χ
4	1.96		Χ	Χ				
5	1.54		Χ			Χ		
6	1.00	Х	Χ					
7	0.76	Χ		Χ				
8	0.70	Χ				Χ		

FIG. 16b

(X = ENGAGED CLUTCH)

RING GEAR TOOTH RATIO:  $\frac{N_{R_1}}{N_{S_1}} = 3.00$ ,  $\frac{N_{R_2}}{N_{S_2}} = 2.87$ ,  $\frac{N_{R_3}}{N_{S_3}} = 1.50$ 

RATIO SPREAD	10.40
RATIO STEPS	
REV2/1	-0.61
1/2	1.83
2/3	1.41
3/4	1.45
4/5	1.27
5/6	1.54
6/7	1.32
7/8	1.08